Azure AIOps Project - Results & Summary

Project Description

This Azure AIOps project demonstrates automated monitoring, anomaly detection, self-healing infrastructure, and FinOps-based cost optimization.

It uses Azure Monitor, Log Analytics, Logic Apps, Azure Functions, and budget alerts to reduce downtime, improve reliability, and save cloud costs.

Results Comparison (Before vs After)

- MTTR (Mean Time to Repair): Reduced from approx. 2.5 hours to 20 minutes
- Alert Noise: Reduced by 60% via AI-based alert correlation
- Downtime: From 1 hour/month to near-zero
- Azure Cost: Saved 18-25% via FinOps budget alerting
- Visibility: From limited dashboards to full-stack KQL-based observability
- Manual Effort: High to Minimal (automated remediation via Logic App + Function)
- Incident Communication: From manual to automated notifications

Business Value

- Predictive operations through ML-based anomaly detection
- Reduced support load with self-healing infrastructure
- Proactive cost management via budget alerts
- Improved reliability, uptime, and DevOps efficiency

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